

Safety and General Information

Important Information on Safe and Efficient Operation
Read This Information Before Using Your Radio.

The information provided in this document supersedes the general safety information in user guides published prior to December 1, 2002.

Transmit and Receive Procedure
Your two-way radio contains a transmitter and a receiver. To control your exposure and ensure compliance with the general population/uncontrolled environment exposure limits, always adhere to the following procedure:

- Transmit no more than 50% of the time.
- To receive calls, release the PTT button.
- To transmit (talk), press the Push to Talk (PTT) button.

Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy exposure only when transmitting (in terms of measuring standards compliance).

Exposure to Radio Frequency Energy
Your Motorola two-way radio complies with the following RF energy exposure standards and guidelines:

- United States Federal communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronics Engineers (IEEE) C95.1-1999 Edition
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998

- Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 KHz to 300 GHz, 1999
- Australian communications Authority Radiocommunications (Electromagnetic Radiation—Human Exposure) Standard, 2003
- ANATAL ANNEX to Resolution No. 303 of July 2, 2002 "Regulation of limitation of exposure to electrical, magnetic and electromagnetic fields in the radio frequency range between 9 KHz and 300GHz" and "Attachment to resolution #303 from July 2, 2002"

To assure optimal radio performance and make sure human exposure to radio frequency electromagnetic energy is within the guidelines set forth in the above standards, always adhere to the following procedures.

Portable Radio Operation and EME Exposure
Antenna Care
Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the radio and may violate regulations.

Do NOT hold the antenna when the radio is "IN USE." Holding the antenna affects the effective range.

Body-Worn Operation
To maintain compliances with RF exposure guidelines, if you wear a radio on your body when transmitting, always place the radio in a Motorola-supplied or approved clip, holder, holster, case or body harness for this product. Use of Non-Motorola-approved accessories may exceed RF exposure guidelines.

If you do not use one of the Motorola-supplied or approved body-worn accessories and are not using the radio held in the normal use position, **ensure the radio and its antenna are at least 1 inch (2.5 cm) from your body when transmitting.**

Data Operation
If applicable, when using any data feature of the radio with or without an accessory cable, **position the radio and its antenna at least one inch (2.5 cm) from the body.**

Approved Accessories
For a list of approved Motorola accessories, visit out Web site at www.motorola.com.

Electromagnetic Interference/Compatibility
Note: Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed or otherwise configured for electromagnetic compatibility. Operation is subject to the following two conditions:

1. This device may not cause harmful interference; and
2. This device must accept any interference received, including interference that may cause undesired operation.

Facilities
To avoid electromagnetic interference and/or compatibility conflicts, turn off your radio in any facility where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.

Aircraft
When instructed to do so, turn off your radio when onboard on aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

Medical Devices – Pacemakers
The Advanced Medical Technology Association recommends that a minimum separation of 6 inches (15 cm) be maintained between a handheld wireless radio and a pacemaker. These recommendations are consistent with the independent research by and recommendations of the U.S. Food and Drug Administration.

- People with pacemakers should:
- ALWAYS keep the radio more than 6 inches (15 cm) from their pacemaker when the radio is turned ON.
 - Not carry the radio in the breast pocket.
 - Use the ear opposite the pacemaker to minimize the potential for interference.
 - Turn the radio OFF immediately if there is any reason to suspect that interference is taking place.

Medical Devices – Hearing Aids
Some digital wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices
If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Safety and General UseWhile Driving
Check the laws and regulations regarding the use of radios in the area where you drive, and always obey them. If you do use your radio while driving, please:

- Give full attention to driving and to the road.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.

Do not place a portable radio in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable radio is placed in the air bag deployment area and the air bag inflates, the radio may be propelled with great force and cause serious injury to occupants of the vehicle.

Potentially Explosive Atmospheres
Turn off your radio prior to entering any area with a potentially explosive atmosphere. Only radio types that are especially qualified should be used in such areas as "Intrinsically Safe." Do not remove, install or charge batteries in such areas. Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.

Note: The areas with potentially explosive atmospheres referred to above include fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles (such as grain, dust or metal powders) and any other area where you would normally be advised to turn off your vehicle engine. Areas with potentially explosive atmospheres are often—but not always—posted.

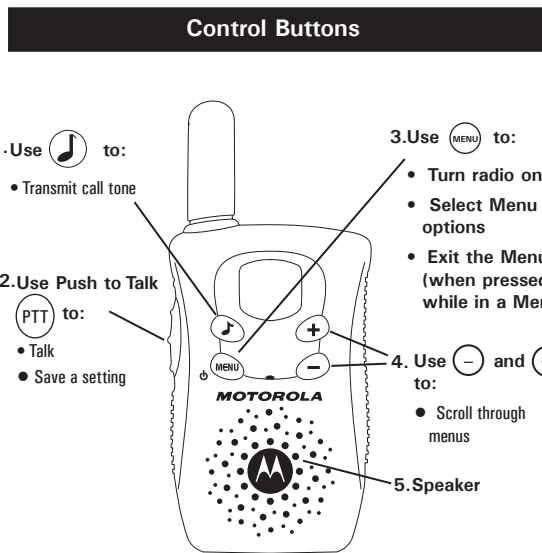
Blasting Caps and Areas
To avoid possible interference with blasting operations, turn off your radio when you are near electrical blasting caps, in a blasting area, or in areas posted "Turn off two-way radios." Obey all signs and instructions.

Operational Cautions
Antennas
Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.

Batteries
All batteries can cause property damage and/or bodily injury such as burns if a conductive material—like jewelry, keys or beaded chains—touch exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse or other container with metal objects.

Battery Charger Safety Instructions:
Save these Instructions

1. Do not expose the charger to rain or snow.
2. Do not operate or disassemble the charger if it has received a sharp blow, or has been dropped or damaged in any way.
3. Never alter the AC cord or plug provided with the unit. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician. An improper condition can result in a risk of electric shock.
4. To reduce the risk of damage to the cord or plug, pull the plug rather than the cord when disconnecting the charger from the AC receptacle.
5. To reduce the risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning.
6. Use of an attachment not recommended or sold by Motorola may result in a risk of fire, electric shock or personal injury.
7. Make sure the cord is located so it will not be stepped on, tripped over or subjected to damage or stress.
8. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of a fire and/or electric shock. If an extension cord must be used, make sure that:
 - The pins on the plug of the extension cord are the same number, size and shape as those on the plug of the charger.
 - The extension cord is properly wired and in good electrical condition.
 - The cord size is 18 AWG for lengths up to 100 feet, and 16 AWG for lengths up to 150 feet.
9. The supply cord of this charger cannot be replaced. If the cord is damaged, please refer to warranty section.



Getting Started

Installing the Batteries:
Your radio uses three AAA Alkaline batteries and beeps when the batteries are low.

1. Turn the radio off.
2. Use a coin to wedge the batter cover open.
3. Insert three AAA Alkaline batteries as shown on the inside of the battery compartment.
4. Reposition the battery cover and press down to secure.

Attaching and Removing the belt clip
Hook the belt clip into the notch at the top of the radio and slide down until it clicks into place.

To Remove
Squeeze the release latch together and slide the clip up and away from the radio.

Turning Your Radio On and Off

1. To turn on , press and hold **(MENU)** until a channel number appears and the radio beeps.
- 2.To turn off, press and hold **(MENU)** until the display goes blank.

Setting the Volume

1. Press the **(+)** to increase or **(-)** to decrease the volume. The volume level flashes and "V" displays.

Do not hold the radio close to your ear. If the volume is set to an uncomfortable level, it could hurt your ear.

Talking and Listening

To communicate, all radios in your group must be set to the same channel.

1. To talk, press and hold **(PTT)**.
2. When you are finished talking, release **(PTT)**.

For maximum clarity, hold the radio two to three inches away from your mouth and speak directly into the microphone. Do not cover the microphone while talking.

Note: This radio does not have Interference Eliminator Codes. To communicate with radios that use Interference Eliminator Codes, the Interference Eliminator Code must be set to 0.

Talk Range
Your radio is designed to maximize performance and improve transmission range. Do not use the radios closer than five feet apart.

Push to Talk (PTT) Timeout Timer
To prevent accidental transmissions and save battery life, the radio emits a continuous warning tone and stops transmitting if you press PTT for 60 continuous seconds.

Initial Setup

Selecting a Channel
Your radio has 8 channels.

1. With the radio on, press **(MENU)** . The current channel flashes.
2. Press **(+)** or **(-)** to select a channel.
3. Press **(PTT)** to confirm your selection or **(MENU)** to continue set up.

Channels and Frequencies

| Channels | Frequency (MHz) |
|----------|-----------------|
| 1 | 446.00625 MHz |
| 2 | 446.01875 MHz |
| 3 | 446.03125 MHz |
| 4 | 446.04375 MHz |
| 5 | 446.05625 MHz |
| 6 | 446.06875 MHz |
| 7 | 446.08125 MHz |
| 8 | 446.09375 MHz |

Transmitting Call Tones
To transmit your call tone to other radios set to the same channel as your radio, press **(Music icon)**

Note: To receive the call tone, radios that use Interference Eliminator Codes must be set to 0.

Special Features

Low Battery Alert
When the battery is empty, the radio chirps periodically after releasing **(PTT)** .

Talk Confirmation Tone
Your radio transmits a unique tone when you finish transmitting. It is like saying "Roger" or "Over" to let others know you are finished talking.

Scan
Easily finds your group's channel by searching all channels for activity.

1. Press **(MENU)** twice until **Z** and flashing Y or – displays
2. Press either **(+)** until Y displays to turn scanning on **(-)** until - displays to turn scanning on
3. Press **(PTT)** to confirm

When the radio detects channel activity, it stops scanning and you hear the transmission. To respond, press PTT within 5 seconds.

Warranty

Limited Warranty for Personal Communication Products, Accessories and Software purchased in Singapore

What Does this Warranty Cover?
This Limited Warranty is a consumer's exclusive remedy, and applies as follows to new Motorola branded products, accessories and software manufactured, distributed and sold by Giant International Ltd. Alcom is the local distributor in Singapore, and warrants Motorola Two-Way Radio Products and Accessories (collectively "Equipment") purchased in Singapore against defects in material and workmanship under normal use and service, for the following periods of time:

Proof of Purchase: You are required to provide proof of purchase as a condition of receiving warranty services. You are entitled to a replacement or repair according to the terms and conditions of this Limited Warranty if your product is found to be faulty within the Warranty Period. This Limited Warranty extends to the original purchaser only and is not transferable.

| Products Covered | Warranty Period | Exclusions |
|---|--|--|
| Equipment as defined above, unless otherwise provided for below. | One (1) year from the date of purchase by the original consumer purchaser of the Equipment unless otherwise provided for below. | Normal Wear and Tear: Periodic maintenance, and repair and replacement of parts due to normal wear and tear, are not covered by this Limited Warranty. Batteries: Motorola supplied batteries will be replaced free of charge within the first six (6) months of the date of purchase of the Equipment if the capacity of the batteries falls below 80% of their rated capacity, or if the batteries develop a leak. Abuse & Misuse: Defects or damage that result from: (a) improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the Equipment resulting from misuse; (b) contact with liquid, water, rain, extreme humidity or heavy perspiration, sand, dirt or the like, extreme heat, or food; (c) use of the Equipment for commercial purposes or subjecting the Equipment to abnormal usage or conditions; or (d) other acts which are not the fault of Motorola, Giant International Ltd. Or Alcom Electronics, are not covered by this Limited Warranty. Use of Non-Motorola branded Products and Accessories: Defects or damage that result from the use of Non-Motorola branded or certified products, accessories, software or other peripheral equipment are not covered by this Limited Warranty. Unauthorized Service or Modification: Defects or damages resulting from service, testing, adjustment, installation, maintenance, alteration, or modification in any way by someone other than Motorola, Giant International Ltd., Alcom Electronics or their authorized service centres, are not covered by this Limited Warranty. Altered Equipment: Equipment with (a) serial numbers or date tags that have been removed, altered or obliterated; (b) broken seals or seals that show evidence of tampering; (c) mismatched board serial numbers; or (d) nonconforming or non-Motorola branded housings, or parts, are not covered by this Limited Warranty. Communication Services: Defects, damage, or failure of the Equipment due to any communication service or signal you may subscribe to or use with the Equipment are not covered by this Limited Warranty. Equipment Purchased Outside of Singapore: This Limited Warranty does not extend to any Equipment which was purchased outside of Singapore. |
| 1. <u>Decorative Accessories and Cases.</u> Decorative covers, bezels, PhoneWrap covers and cases. | 1. Limited lifetime warranty for the lifetime of ownership by the original consumer purchaser of the decorative accessory or case. | |
| 2. <u>Consumer Two-Way Radio Accessories.</u> | 2. Thirty (30) days from the date of purchase by the original consumer purchaser of the consumer two-way radio accessory. | |
| 3. <u>Products and Accessories that are Repaired or Replaced.</u> | 3. The balance of the original warranty or for thirty (30) days from the date the products or accessories are returned to the consumer, whichever period is longer. | |

Who is covered?
This Limited Warranty applies only to the original consumer purchaser of the Equipment, and is not transferable.

What will Alcom Electronics do?
Alcom Electronics, at its option, will at no charge either repair, or replace any defective Equipment during the applicable Warranty Period. Alcom Electronics may use functionally equivalent, reconditioned, refurbished, pre-owned or new Equipment or parts at its discretion. No data, software or applications added to Equipment, including but not limited to personal contacts, games and ringer tones, will be reinstalled. To avoid losing such data, software and applications, customers are advised to create a back up prior to requesting service.

How do we obtain Warranty Service or Other Information?
To obtain warranty service or information, please call:

Singapore

Alcom Electronics Pte Ltd.
Hotline: (65) 6841 2668

You will receive instructions on how to ship the Equipment, at your expense, to an authorized repair centre. To obtain warranty service, you must provide Alcom Electronics with: (a) a copy of your purchase receipt, bill of sale or other comparable proof of purchase for the Equipment; (b) a written description of the problem; (c) the name and location of the installation facility (if applicable) and (e) your postal address and contact telephone number. Alcom Electronics will be the sole determinant as to whether the Equipment is defective.

What Other Limitations Are There?
TO THE EXTENT PERMITTED BY LAW, ALL CONDITIONS, WARRANTIES AND TERMS NOT EXPRESSLY CONTAINED IN THIS LIMITED WARRANTY ARE EXCLUDED.
ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY, OTHERWISE THE REPAIR, REPLACEMENT, OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OF IMPLIED. IN NO EVENT SHALL MOTOROLA. GIANT INTERNATIONAL LTD. OR ALCOM ELECTRONICS PTE LTD BE LIABLE, WHETHER IN CONTRACT OR TORT (INCLUDING NEGLIGENCE) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE EQUIPMENT, OR ANY SOFTWARE, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA, SOFTWARE OR APPLICATIONS OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE EQUIPMENT, OR ANY SOFTWARE, TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY LAW.

Some states and jurisdictions do not allow the limitation or exclusion of incidental or consequential damages, or limitation on the length of an implied warranty, so the above limitations or exclusions may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights that vary from state to state or from one jurisdiction to another.

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